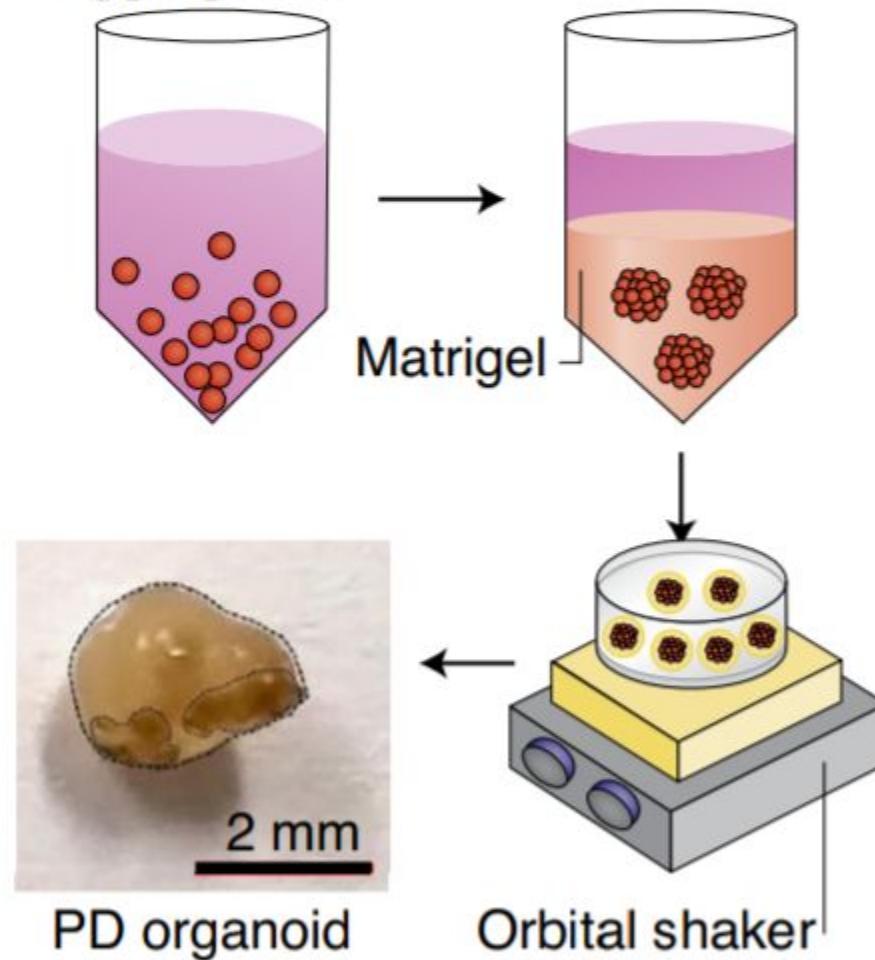
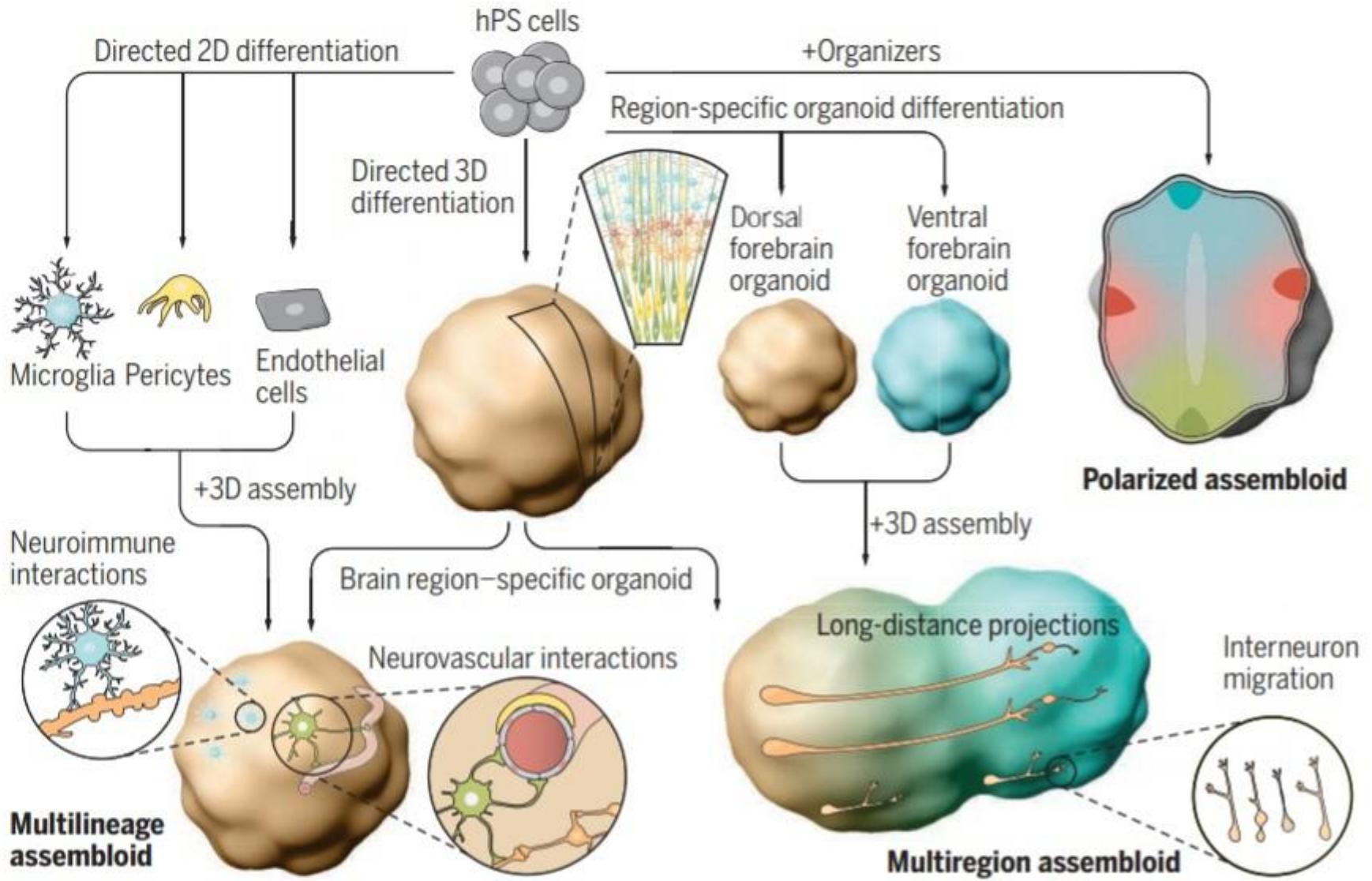


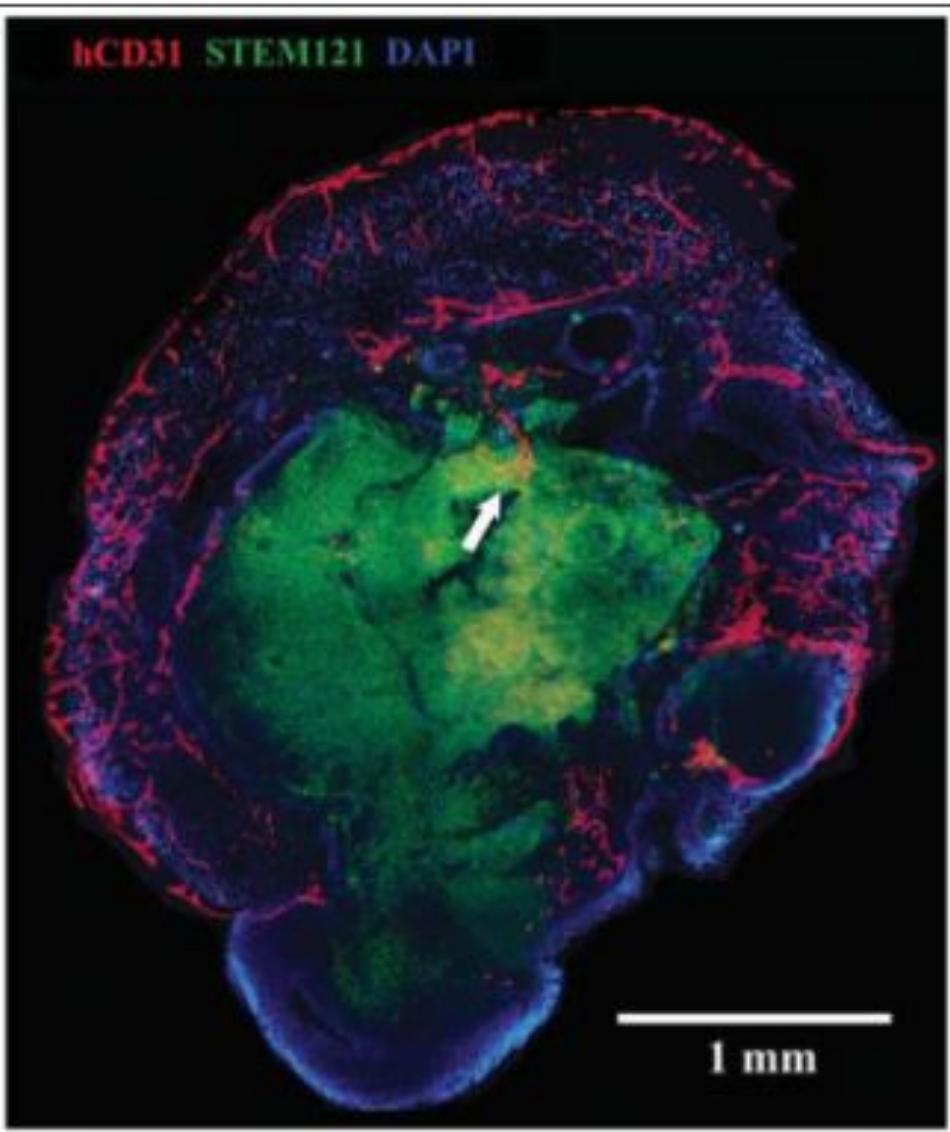
Aggregation



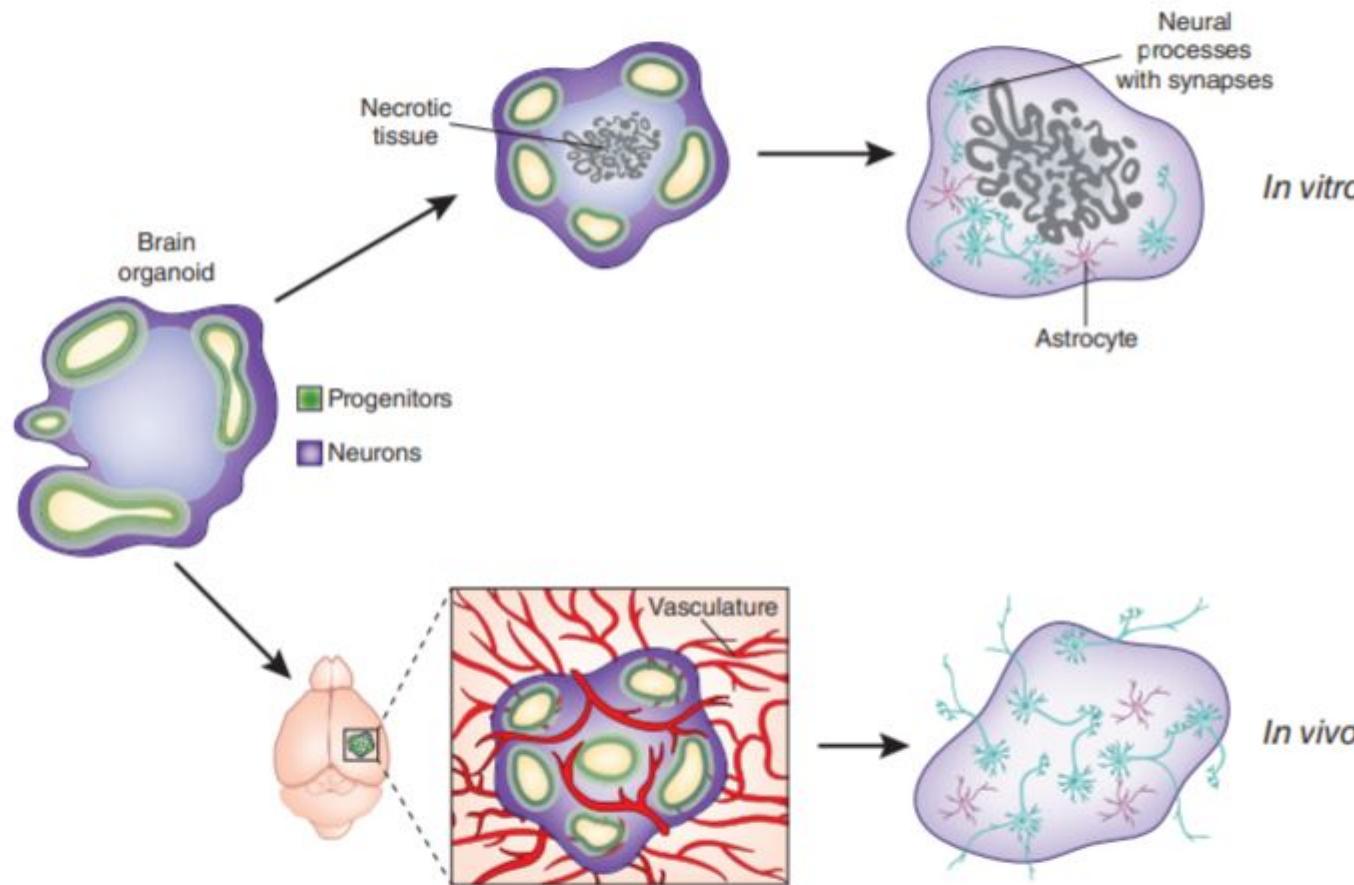
Tan H. et al, 2020



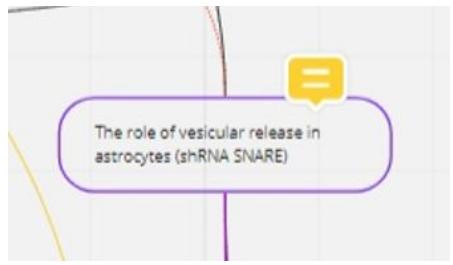
Paşa, Sergiu P. (2019).

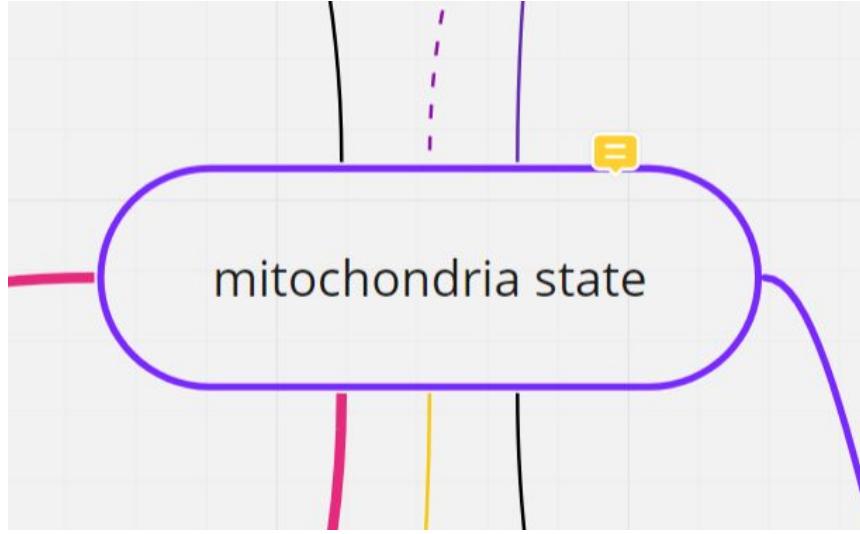


Missy T. Pham, 2018



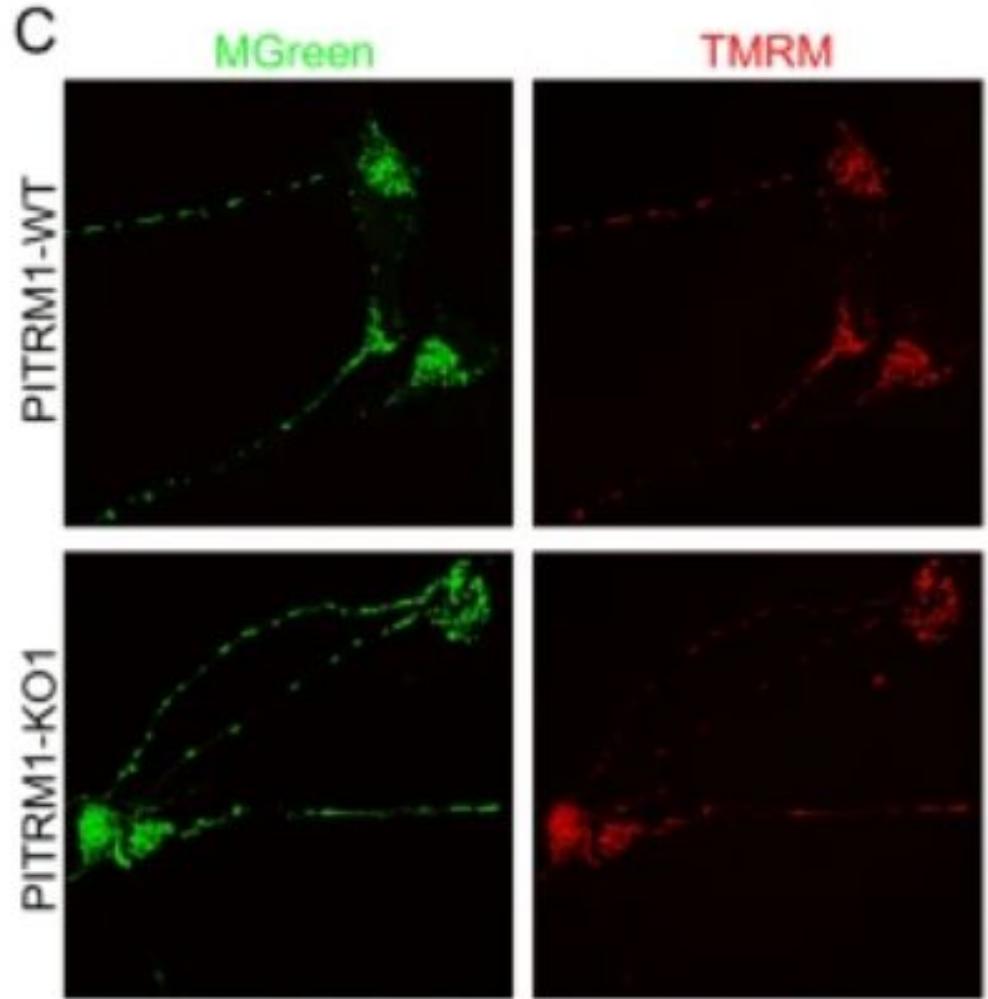
Lancaster M.A., 2018

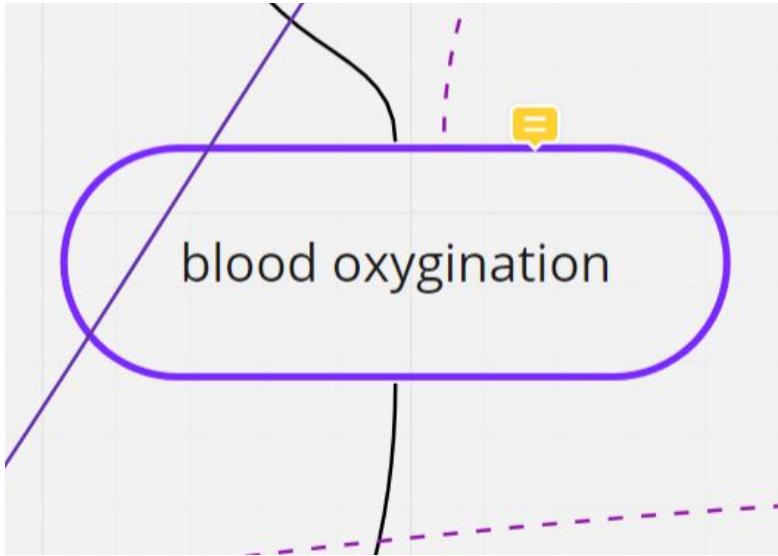




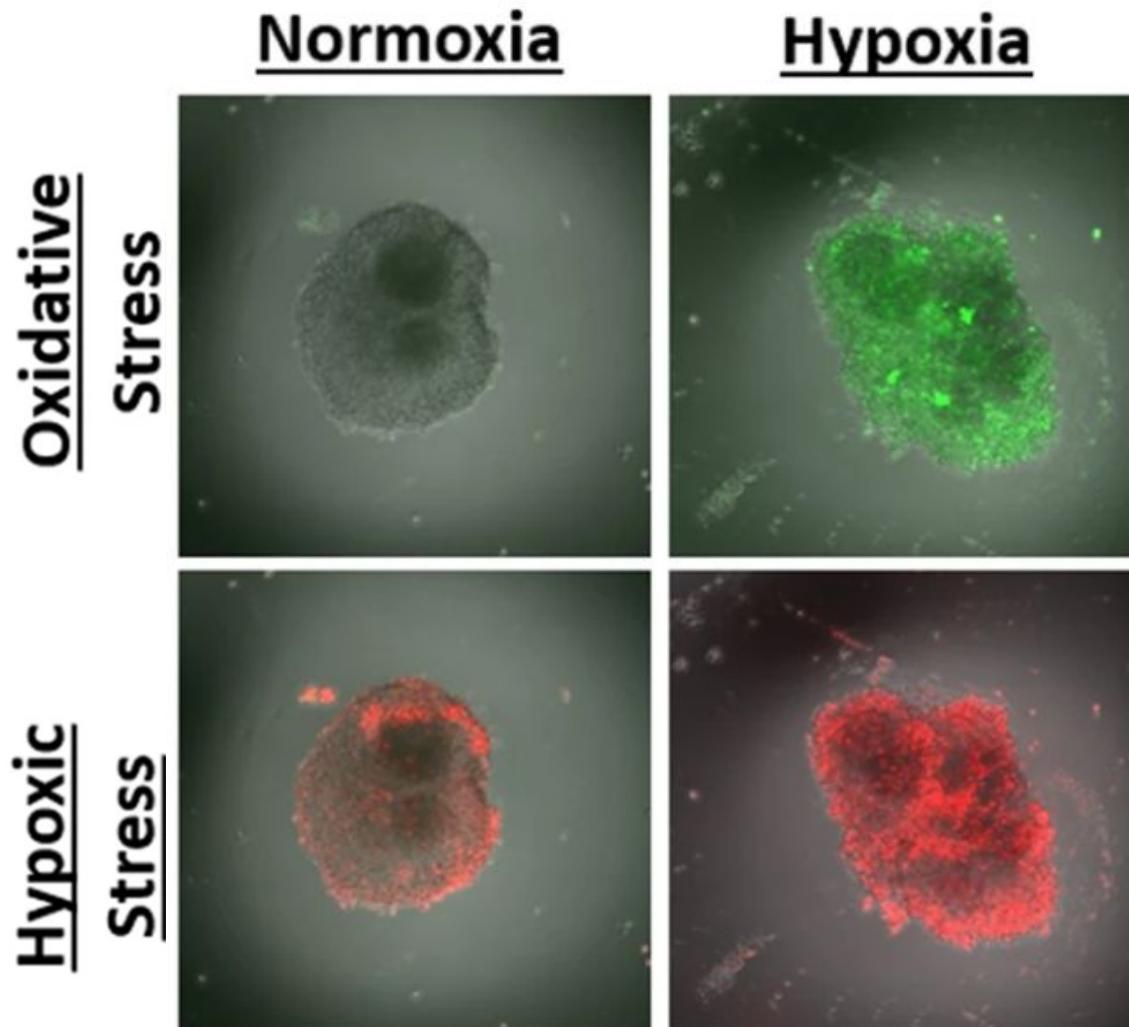
Tools and approaches for analyzing the role of mitochondria in health, development and disease using human cerebral organoids (Michał Liput et al, 2021)

Loss of function of the mitochondrial peptidase PITRM1 induces proteotoxic stress and Alzheimer's disease-like pathology in human cerebral organoids
(Pérez M.J. et al. 2020)



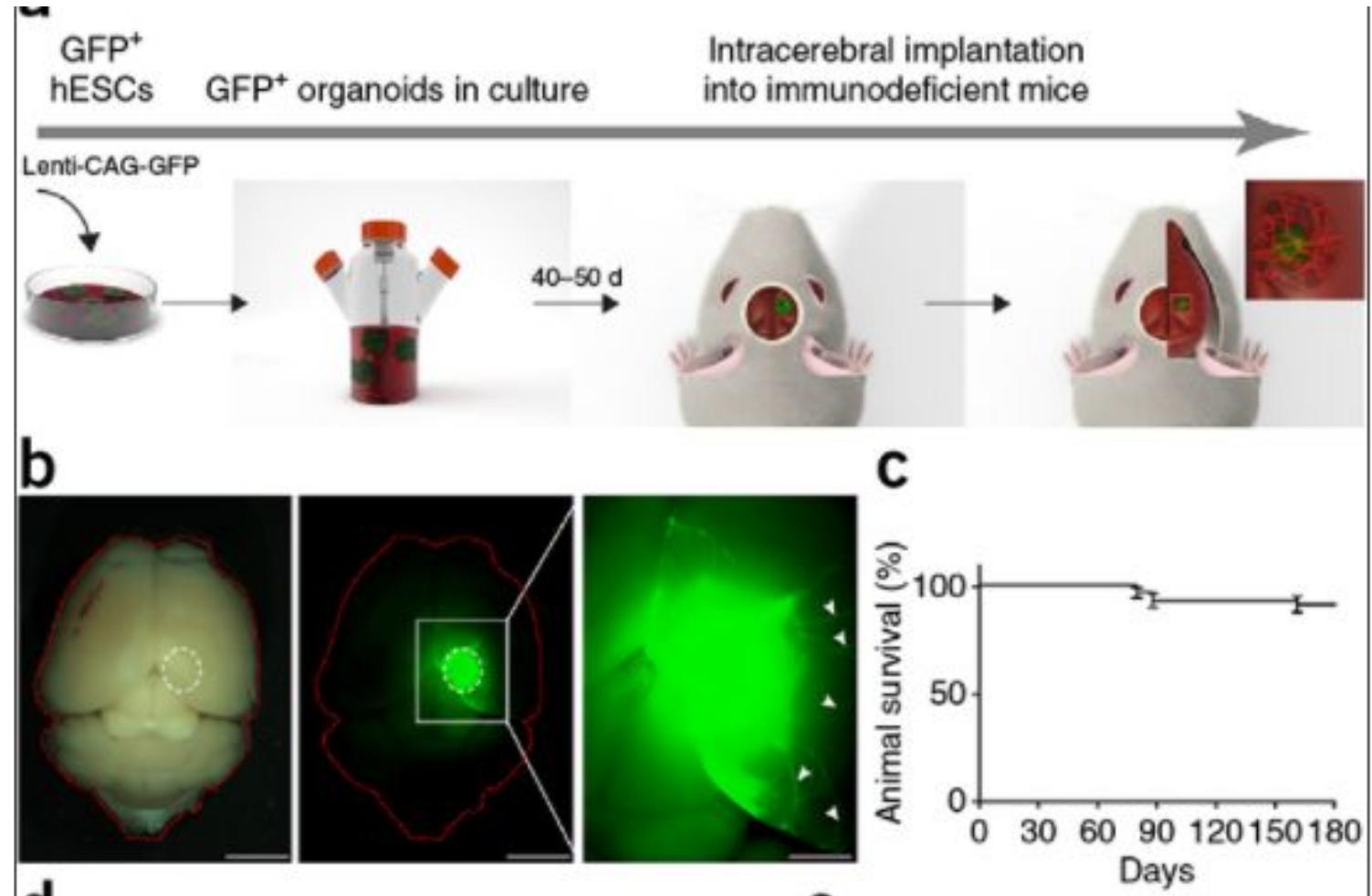


Multicellular 3D Neurovascular Unit Model for Assessing Hypoxia and Neuroinflammation Induced Blood-Brain Barrier Dysfunction (Nzou G. et al., 2020)

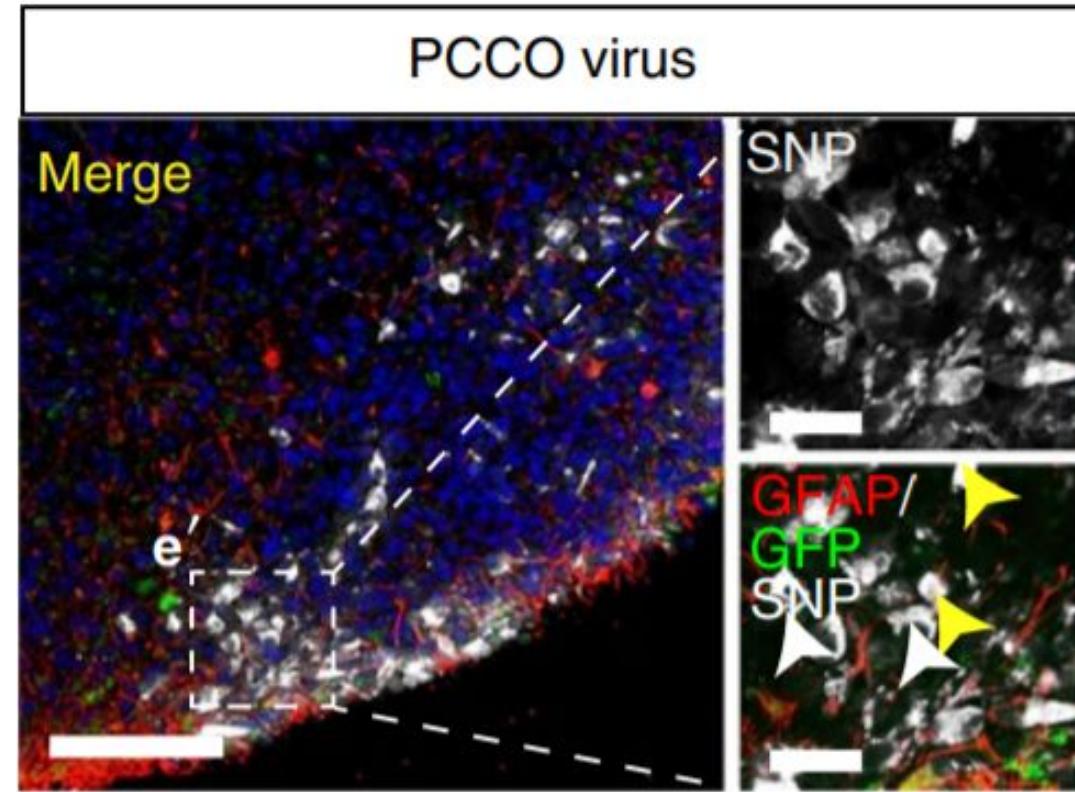
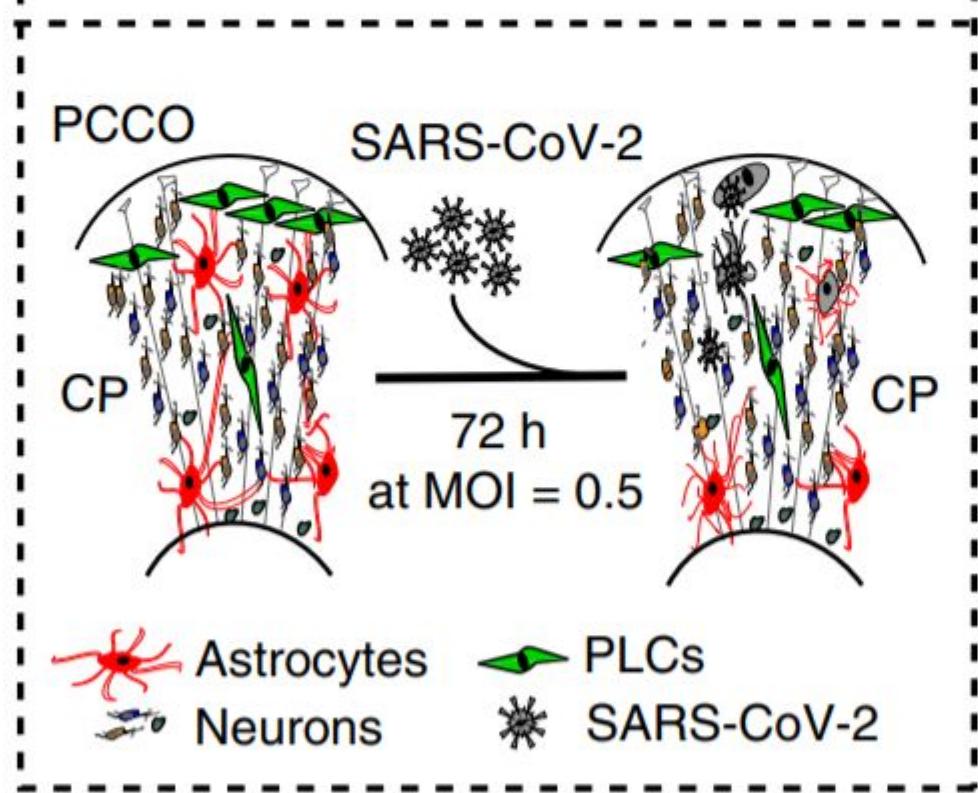


exosome

An *in vivo* model of functional and vascularized human brain organoids (Mansour, A. A. et al., 2018)

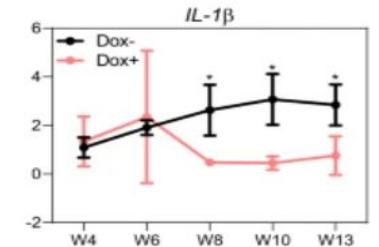
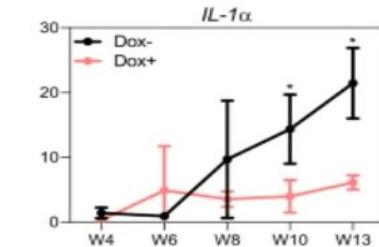
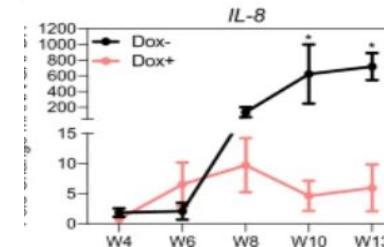
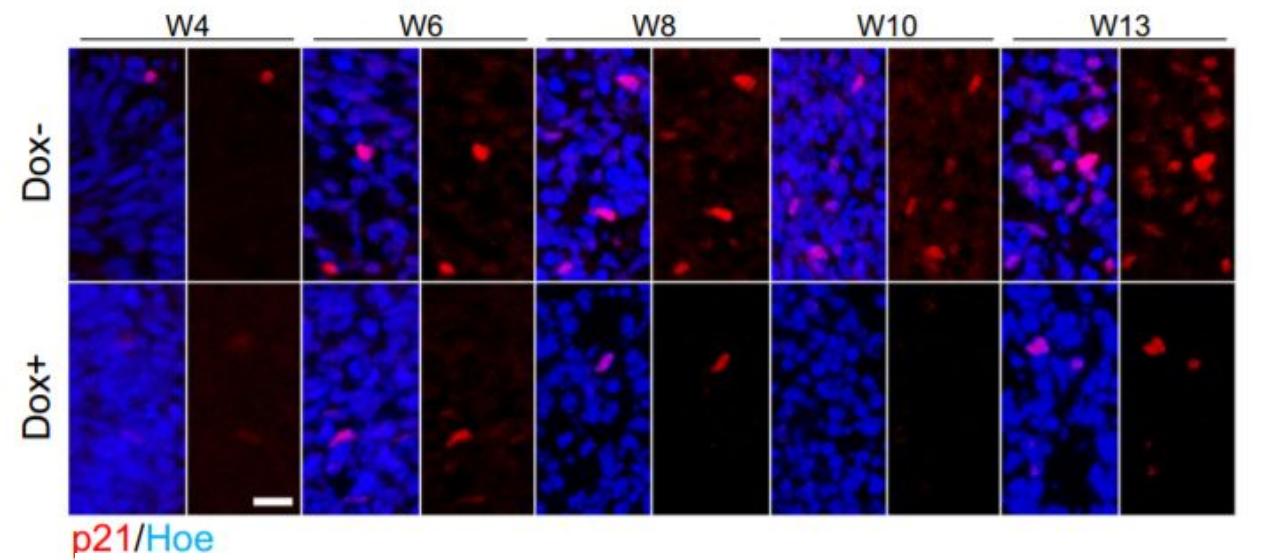
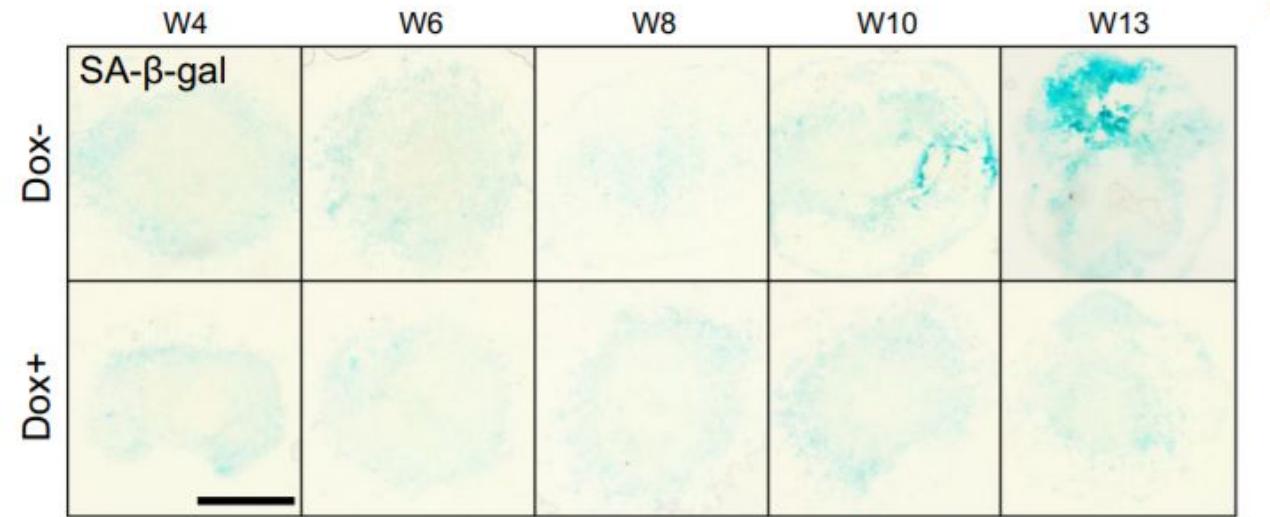


A human three-dimensional neural-perivascular 'assembloid' promotes astrocytic development and enables modeling of SARS-CoV-2 neuropathology (Wang L. et al, 2021)





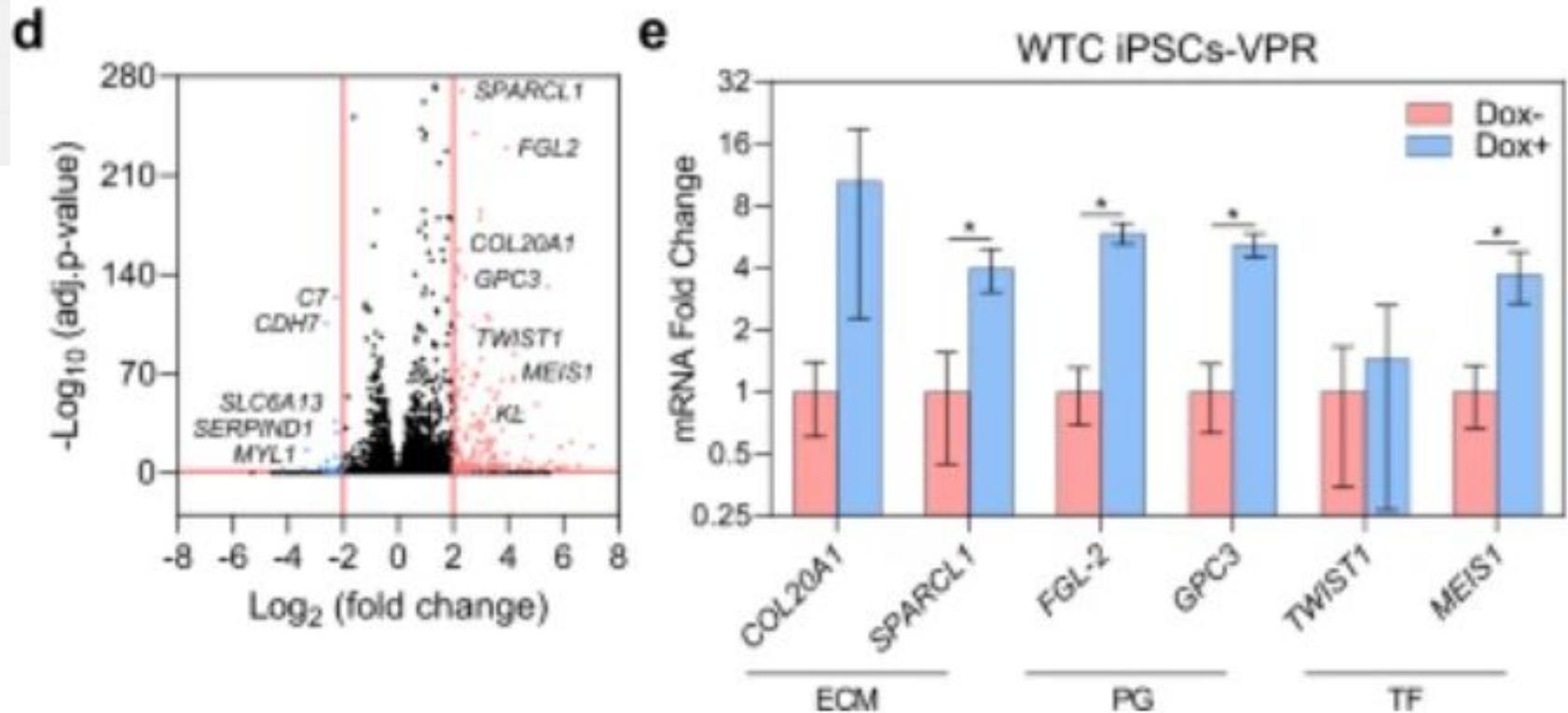
**Klotho inhibits neuronal senescence
in human brain organoids
(Shaker M.R., 2021)**

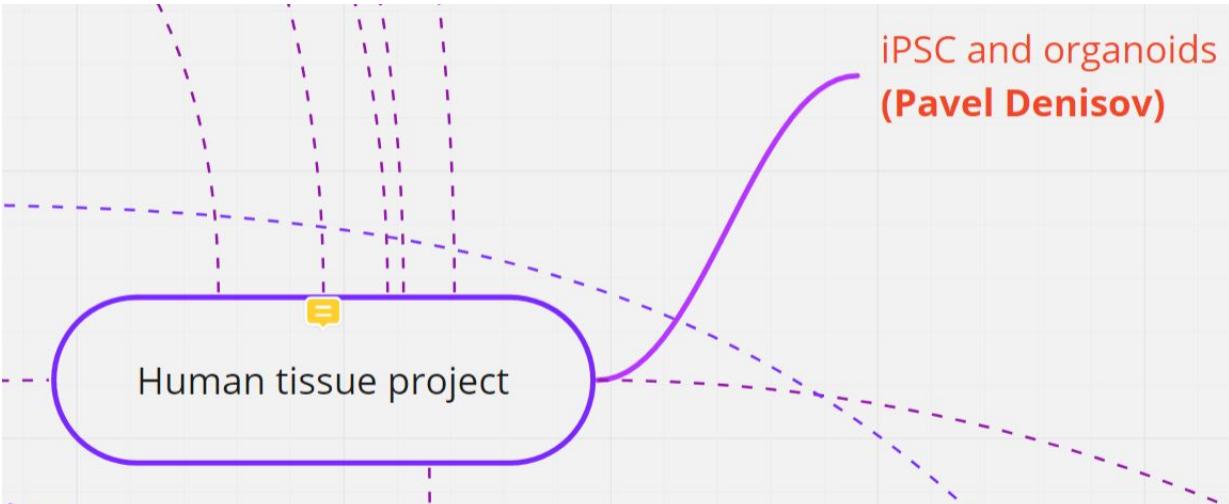


Extracellular matrix
(Yulia Dembitskaya)

ECM ?
PNNs ?

Klotho inhibits neuronal senescence in human brain organoids (Shaker M.R., 2021)





Human tissue project

iPSC and organoids
(Pavel Denisov)

Alzheimer's
Disease model

